

# PT5343



## Pressure transmitter

PT-040-SEG14-A-ZVG/US/ IW



1 Sealing



### Product characteristics

Output signal	analogue signal		
Measuring range	0...40 bar	0...580 psi	0...4 MPa
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2)		

### Application

Application	for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-40...90		
Min. bursting pressure	800 bar	11600 psi	80 MPa
Pressure rating	100 bar	1450 psi	10 Mpa
Note on pressure rating	static		
Vacuum resistance [mbar]	-1000		
Type of pressure	relative pressure		

### Electrical data

Operating voltage [V]	8.5...36 DC		
Min. insulation resistance [MΩ]	100; (500 V DC)		
Protection class	III		
Reverse polarity protection	yes		
Power-on delay time [s]	< 0.1		

### Inputs / outputs

Number of inputs and outputs	Number of analogue outputs: 1
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Outputs		
Total number of outputs	1	
Output signal	analogue signal	
Number of analogue outputs	1	
Analogue current output [mA]	4...20	
Max. load [ $\Omega$ ]	$(U_b - 8,5 \text{ V}) / 21,5 \text{ mA}$ ; @8,5V= 0 $\Omega$ ; @12V max. 160 $\Omega$ ; @24V max. 720 $\Omega$	
Short-circuit proof	yes	
Overload protection	yes	
Measuring/setting range		
Measuring range	0...40 bar      0...580 psi      0...4 MPa	
Accuracy / deviations		
Repeatability [% of the span]	$< \pm 0,05$ ; (with temperature fluctuations $< 10 \text{ K}$ )	
Characteristics deviation [% of the span]	$< \pm 0,5$ ; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)	
Linearity deviation [% of the span]	$< \pm 0,1$ (BFSL) / $< \pm 0,2$ (LS)	
Hysteresis deviation [% of the span]	$< \pm 0,2$	
Long-term stability [% of the span]	$< \pm 0,1$ ; (per 6 months)	
Temperature coefficient zero point and span [% of the span / 10 K]	$< 0,1$ (-25...90 $^{\circ}\text{C}$ ) / $< 0,2$ (-40...-25 $^{\circ}\text{C}$ )	
Response times		
Step response time analogue output [ms]	1	
Operating conditions		
Ambient temperature [ $^{\circ}\text{C}$ ]	-40...90	
Storage temperature [ $^{\circ}\text{C}$ ]	-40...100	
Protection	IP 67; IP 69K	
Tests / approvals		
EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF [years]	787	
UL approval	UL Approval no.	J029
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	

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## Pressure transmitter

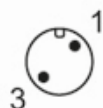
PT-040-SEG14-A-ZVG/US/ IW

Mechanical data	
Weight [g]	59
Materials	1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PEI
Materials (wetted parts)	1.4542 (17-4 PH / 630)
Min. pressure cycles	60 million; (at 1.2 times nominal pressure)
Tightening torque [Nm]	25...35; (recommended tightening torque; depends on lubrication, seal and pressure rating)
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2)
Process connection sealing	FKM (DIN EN ISO 1179-2)
Restrictor element integrated	no (can be retrofitted)

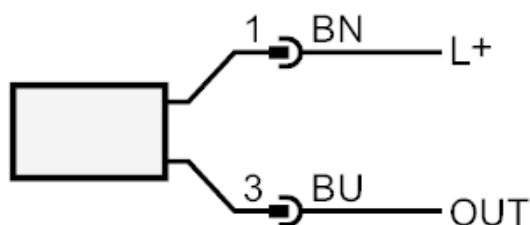
Remarks	
Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

## Electrical connection

Connector: 1 x M12



## Connection



OUT1            analogue output  
                  colours to DIN EN 60947-5-2  
                  Core colours :  
BN =            brown  
BU =            blue